

On the Question of Efficiency Criteria of  
Fast Neutron Atomic Power Stations, by  
O. D. Kuznetsovsky, Ye. V. Kirillov, 12 pp.  
RUSSIAN, per, Symposium SEV: Sostoyaniye i  
Perspektivy Rabot po Sostoyaniye AES s Reaktorami  
na Ryzrykh Neytronakh, Sbornik: Doklady,  
Obinsk, 1967, pp 365-378.  
JPRS 48331

Sci-Med Sci & Tech

Optimization of Fast Reactors Taking the  
Thermal, Strength and Physical Characteristics  
into Account, by A. A. Kashutin, A. M. Kus'arin.

18 pp.

RUSSIAN, per, Symposium SEV: Sostoyaniye i  
Perspektivy Rabot po Sozdaniyu AES s Reaktorami  
na Bystroykh Neutronakh, Sbornik Dokladov,  
Obinsk, 1967, pp 379-400.  
JPRS 48331

Sci-Fuel Sci. & Tech  
Jul 69

386,174

Kinetics of a Gas-Cooled Fast Reactor in the  
Region of Small Perturbations, by

G. N. Poletayev, 14 pp.

RUSSIAN, per. Symposium SEV: Sostoyaniye i  
Perspektivy Rabot po Soudaniyu AKS i Reaktorami  
na Bystrykh Neytronakh, Sbornik Dokladov,  
Otdinsk, 1967, pp 381-394.  
JPRS 48330

Sci-Nucl Sci & Tech  
Jul 69

386,141

Transient Processes in a Gas-Cooled Reactor  
when There is a Break in the First Circuit,  
17 pp.

RUSSIAN, per, Simpozium SEV: Sostoyaniye i  
Perspektivy Rabot po Sostaniyu AES s Reaktorami  
na Bystrykh Neytronakh, Sbornik Dokladov,  
Obinsk, 1967, pp 395-411.  
JPRS 48330

Sci-Nucl Sci & Tech  
Jul 69

386,142

Optimizing the Initial Conversion Ratio of  
Fast Breeders, by I. Furika, H. Paveloscu,  
5 pp.

RUSSIAN, par, Symposium SEV: Sostoyaniye i  
Perspektivy Rabot po Sostoyaniyu AES i Reaktorami  
na Bystroykh Neutronakh, Sbornik Dokladov,  
Obinsk, 1967, pp 401-404.  
JPRS 48331

Sol-Nucl Sci & Tech  
Jul 69

386,175

Problems of Developing Fuel Elements for Fast  
Neutron Reactors, by I. S. Golovnin,

N. P. Agapova, 19 pp.

RUSSIAN, per, Simpodium SEV: Sostoyaniye i  
Perspektivy Rabot po Sozdaniyu AES s Reaktorami  
na Bystrykh Neytronakh, Sbornik Dokladov.

Obinsk, 1967, pp407-424.

JPRS 48331

Continued on next page

Nonstationary Processes in a Gas-Cooled Reactor  
when the Gas Flow is Accidentally Cut Off,  
by G. N. Paletayov, 11 pp.

RUSSIAN, par, Symposium SEV: Sontovaniye i  
Perspektivy Rabot po Soudaniya AES s Reaktorami  
na Bystrykh Neytronakh, Sbornik Dokladov,  
Odinsk, 1967, pp 412-421.  
JPRS 48330

Sci-Mual Sci & Tech  
Jul 69

386,143

Some Problems of Boiling and Outgassing in Sodium, by V. I. Subbotin, M. H. Arnel'dov, 29 pp.

RUSSIAN, per, Simpozium SIV: Sostoyaniye i Perspektivy Rabot po Sostaniyu AES s Reaktorami na Bystrykh Neytronakh, Sbornik Dokladov, Obinsk, 1967, pp 422-450.  
JPRS 48330

Scientific Sci & Tech



Oxide Fuel for Fast Reactors, by  
O. D. Kazachkovskiy, 14 pp.  
RUSSIAN, por, Simposium SEV: Sostoyaniye i  
Perspektivy Rabot po Sozdaniyu MRS s Reaktorami  
na Bystrykh Neytronakh, Sbornik Dokladov,  
Obinsk, 1967, pp 425-438.  
JPRS 48331

Sci-Nucl Sci & Tech  
Jul 69

386,177

Effect of Radiation on the Properties of  
Structural Materials, by Sh. Sh. Ibragimov,  
V. N. Epikov, 17 pp.

RUSSIAN, per. Symposium SEV: Sostoyaniye i  
Perspektivy Rabot po Sostoyaniye AES i Reaktorami  
na Vysshich Noyttronakh, Sbornik Dokladov,  
Obinsk, 1967, pp 439-456.  
JPRS 43331

Sci-Nucl Sci & Tech  
Jul 69

386,178

The Problems of Corrosion Resistance of  
Structural Materials in Sodium, by

V. N. Bykov, V. V. Zotov, 36 pp.

RUSSIAN, per. Symposium SEV: Sostoyaniye i  
Perspektivy Rabot po Soderzaniyu AES i Reaktorami  
na Bystrozh Neytronakh, Sbornik Dokladov,  
Otdel, 1967, pp 451-481.

JPRS 48330

Sci-Nucl Sci & Tech

Jul 69

386,145

Study of Stainless Steels Applicable to Core  
Conditions in Fast Reactors Developed in the  
USSR, by N. P. Agapova, M. G. Bogolepov,  
41 pp.

RUSSIAN, per, Symposium SEV: Sostoyaniye i  
Perspektivy Rabot po Soderzaniye AES s Reaktorami  
na Vystryich Neytronakh, Sbornik Dokladov,  
Obdinsk, 1967, pp 457-491.  
JPRS 48331

Sci-Nucl Sci & Tech  
Jul 69

386,179

The Effect of Oxygen Content in Sodium on the Corrosion and Mass Transfer of the Ferrite and Some Stainless Steels, by G. Minchev, 16 pp.  
RUSSIAN, per, Symposium SEV: Sontovaniye i  
Perspektivy Rabot po Soudaniyu AES s Reaktorami  
na Bystrykh Neytronakh, Sbornik Dokladov,  
Obinsk, 1967, pp 482-497.  
JPRS 48330

Sci-Hue] Sci & Tech  
Jul 69

386,146

Effect of Reactor Radiation on Structure and  
Properties of Stainless Steels, by  
V. D. Balashov, S. N. Volinov, 23 pp.  
RUSSIAN, for, Symposium SEV: Sostoyaniye i  
Perspektivy Rabot po Sozdaniyu AES s Reaktorami  
na Bystrykh Neytronakh, Sbornik Dokladov,  
Obinsk, 1967, pp 492-509.  
JPRS 48331

Sci-Mech Sci & Tech  
Jul 69

386,180

Mechanisms of the Effects of a Liquid Metal  
Medium on Solid Metals in Stressed State, by  
V. I. Nikitin, 8 pp.

RUSSIAN, per, Symposium SVV: Sostoyaniye 1  
perspektivy Rabot po Sozdaniyu AES s Reaktorami  
na Bystroym Neutronom, Sbornik Dokladov,  
Obinsk, 1967, pp 498-505.  
JPRS 48330

Sci-Nucl Sci & Tech  
Jul 69

386,147

Contamination of Sodium Heat Carrier. Problems  
of Impurity Monitoring, by V. I. Subbotin,  
F. A. Kozlov, 32 pp.

RUSSIAN, per, Symposium SEV: Sostoyaniye i  
Perspektivy Rabot po Soudaniyu AES s Reaktorami  
na Tsvetich Noytronakh, Sbornik Dokladov,  
Obinsk, 1967, pp 506-533.  
JPRS 48330

Sci-Nucl Sci & TECH  
Jul 69

386,148



Stress-Rupture Strength and Creep of Fuel-  
Element Jackets for Fast Reactors, by  
Yu. I. Likhachov, V. V. Valdnomayeva, 25 pp.  
RUSSIAN, per, Symposium SEV: Sostoyaniye i  
Perspektivy Rabot po Sondaniye AES s Reaktorami  
na Vystrykh Neytronakh, Sbornik Dokladov,  
Obinsk, 1967, pp 510-528.  
JPRS 48331

Sci-Nucl Sci & Tech  
Jul 69

386.181

Heat Exchange and Hydrodynamics in Fast  
Reactors, by V. I. Subbotin, P. A. Ushakov,  
50 pp.

RUSSIAN, per. Symposium SEV: Sostoyaniye i  
Perspektivy Rabot po Sozdaniyu AES s Reaktorami  
na Bystrykh Neytronakh, Sbornik Dokladov,  
Obninsk, 1967, pp 529-568.  
JPRS 48331

Sci-Nucl Sci & Tech  
Jul 69

386,182

Purification Problems of a Sodium Heat Carrier,  
by V. I. Subbotin, F. A. Kozlov, 36 pp.  
RUSSIAN, par. Simpodium SEV: Sostoyaniye i  
Perspektivy Rabot po Sondaniyu AES s Reaktorami  
na Bystrykh Neytronakh, Sbornik Dokladov,  
Obinsk, 1967. pp 534-560.  
JPRS 48330

Sci-Nucl Sci & Tech  
J-7 60

Monitoring Hermeticity of Heat Generating  
Elements of BR-5 Reactor. Removing Radioactive  
Fission Products from Sodium and Inert Gas,  
by N. N. Aristarkhov, I. A. Yefimov, 38 pp.  
RUSSIAN, per, Symposium STV: Sostoyaniya i  
Perspektivy Rabot po Sostaniyu AES s Reaktorami  
na Bystrykh Neytronakh, Sbornik Dokladov,  
Obinsk, 1967, pp 561-593,  
JPRS 48330

Sci-Nucl Sci & Tech  
Jul 69

386,150

Results of a Study of Ceramic Nuclear Fuel in  
Czechoslovakia, by Milan Podest, 7 pp.  
RUSSIAN, per, Simpodium SEV: Sostoyaniye i  
Perspektivy Rabot po Sozdaniyu AES s Reaktorami  
na Hystroykh Nuytronakh, Sbornik Dokladov.  
Obinsk, 1967, pp 569-575.  
JPRS 48331

Sci-Nucl Sci & Tech  
Jul 69

386,183

Safety in the Operation of Fuel Rods and Methods  
of Determining the Safety Factor, by V. Krett,  
I. Vlechek, 34 pp.

RUSSIAN, per, Simposium SEV: Sostoyaniye i  
Perspektivy Rabot po Sostoyaniyu AEE s Reaktorami  
na Bystrykh Neytronakh, Sbornik Dokladov,  
Obinsk, 1967, pp 576-605.  
JPRS 48331

Sci-Mual Sci & Tech  
Jul 69

386,184

Work on the Technology and Heat Transfer of  
Liquid Metals, by P. A. Andreyev,  
V. M. Borishanskii, 20 pp.  
RUSSIAN, per, Symposium SFV: Sostoyaniye i  
Perspektivy Rabot po Sozdaniyu AES s Reaktorami  
na Bystrykh Neytronakh, Sbornik Dokladov,  
Obinsk, 1967, pp 594-612.  
JPRS 48330

Sci-Nucl Sci & Tech  
Jul 69

386,151

Sodium Heat-Transfer and Technology Experiments  
on Plants of the Nuclear Research Institute  
of the Czechoslovak Academy of Sciences, by  
M. Pasak, V. Sulc, 16 pp.  
RUSSIAN, per, Symposium SKV: Sostoyaniye i  
Perspektivy Rabot po Sostaniye AES s Reaktorami  
na Ryskikh Neytronakh, Sbornik Dokladov,  
Obinsk, 1967, pp 613-626.  
JPRS 48330

Sci-Nucl Sci & Tech  
Jul 69

386,152



Technical and Technological Problems of  
Experimental Research on the Boiling of  
Alkali Metals, by B. Ruzhanskij, 13 pp.  
RUSSIAN, per, Symposium SEV: Sostoyaniye i  
Perspektivy Rabot po Sozdaniyu AHS s Reaktorami  
na Bystrokh Neytronakh, Sbornik Dokladov,  
Obinsk, 1967, pp 627-638.  
JPRS 48330

Sci-Nucl Sci & Tech  
Jul 69

386,153

Prospects for Using Chemically Reacting Systems  
as Coolant and Working Substance in Atomic  
Power Stations with Fast Nuclear Reactors, by  
A. K. Krasin, V. B. Nesterenko, 27 pp.  
RUSSIAN, per, Symposium SEV: Sostoyaniye i  
Perspektivy Rabot po Sondaniyu AES s Reaktorami  
na Dystriyish Noytronnakh, Sbornik Dokladov,  
Obinsk, 1967, pp 639-659.  
JPRS 48330

Solomon Sci & Tech

Behavior of Stainless Steels in Sodium in the  
600-900° Temperature Range, by N. P. Agapova,  
A. G. Ioltukhovskiy, 13 pp.

RUSSIAN, per, Symposium po obshcheyam  
Metallicheskim Teplosil'mam: Izucheniye  
Problemy Korrozii i Opyt Eksploataatsii Sistem  
28 November - 2 December 1965.  
JPRS: 40,027

Sci - Nuc Sci  
Mar 67

320,502

Composition and Distribution of Impurities,  
Their Control and Removal from Circulating  
Alkali Metal Coolants, by A. I. Lappunskiy,  
V. I. Subbotin, 17 pp.

RUSSIAN, per, Simpozium po shchalochnym  
Metallicheskim Teploperenivayem: Kucheniye  
Problemy Korrozii i Ochk. Naplunatatsii Sistem  
28 November - 2 December 1966.  
JPRS: 40,027

Sci - Nuc Sci  
Mar 67

320,501

Precipitation of Caides from a Sodium Flow,  
by V. I. Subbotin, P. A. Konlov, 23 pp.  
RUSSIAN, per, Symposium po khimicheskoy  
Metallicheskoy Teploenergetike: Izucheniye  
Problemy Korrozii i Opyt Eksploataatsii Sistem  
28 November - 2 December 1966.  
JPRS: 40,027

Sci - Nuc Sci  
Mar 67

320,503

Study of Sodium Purification by High-Efficiency  
Cold Diffusion Traps, by M. N. Armol'dov, N.  
N. Ivanovskiy, 14 pp.

RUSSIAN, per, Simpozium po shchelochnyam Metall-  
icheskim Teploositol'yam: Issledeniye Problem  
Korrozii i Opyt Eksploataatsii Sistem

28 November - 2 December 1965.

JPRS: 40,027

Sci - Nuc Sci  
Mar 67

320,504

Study of Impurity Distribution in a Turbulent  
Flow of Molten Metal Coolant, by N. N.

Ivanovskiy, Yu. I. Orlov, 11 pp.

RUSSIAN, per. Simposium po mikhelochyem  
Metallichevym Teploobitelym: Inzheneri,  
Problemy Korrozii i Osveteleniya i Sistemy  
28 November - 2 December 1966.

JPRS: 40,027

Sci Nuc Sci  
Mar 67

320,505

Study of the Possibility of Monitoring  
Impurities in Molten Metal Coolants by  
Measuring Electrical Resistance, by M. N.  
Ammol'dov, M. N. Ivanovskiy, 8 pp.  
RUSSIAN, per, Simpozium po shchelochnyam  
Metallicheskim Teplosil'nyam: Issledeniye  
Problemy Korrozii i Opyt Eksploatatsii Sistem  
28 November - 2 December 1965.  
JPRS: 40,027

Sci - Nuc Sci

Mar 67

320,506



PF-4 Experimental Equipment for Studying Neutron  
Energy Spectra, by V. A. Kuznetsov, A. I. Mogil'-  
ner, 24 pp.

RUSSIAN, per, Symposium po temam Neutronov i Reaktorov i Reaktorov Spektrom (Mezhdunarodnoye  
Agentsvo po Atomnoy Energii), 17-21 Jul 1967.  
JPRS 43682

Sci-Nucl Sci and Tech  
Jan 68

348,363

Measurement of Neutron Pulse Drop in Small Slugs  
of Beryllium and Beryllium Oxide, by I. F. Zhe-  
herum, 20 pp.

RUSSIAN, per. Symposium po terminalizatsii Ney-  
tronov i Reaktornym Spaktram (Mashinostroeniye  
Agentsvo po Atomnoy Energii), 17-21 Jul 1967.  
JPRS 43682

Sol-Nuol Sci and Tech  
Jan 68

348,362

Study of Neutron Thermalization in Water at  
Different Times, by S. N. Ishmayev, V. I. Mostovoy,  
16 pp.

RUSSIAN, per, Symposium po teorii i Nuy-  
ironov i Reaktornym Spetsial (Mezhdunarodnaya  
Agentsvo po Atomnoy Energii), 17-21 Jul 1967,  
JPRS 43682

Sci-Nucl Sci and Tech  
Jan 68

348,361

Finding Solutions to Certain Transfer Problems,  
by V. I. Lebedev, 15 pp.

RUSSIAN, per, Symposium po teorii i praktiki  
perenosa i razlozheniya signalov (Mezhdunarodnoye  
Agentstvo po Atomnoy Energii), 17-21 Jul 1967.  
JPRS 43688

Sci-Nucl Sci and Tech  
Jan 68

348,360

Use of Systems of Laguerre Polynomials and Associated Functions for the Solution of Certain Thermalization Problems, by N. I. Lalotin and I. G. Pasyukov, 14 pp.

RUSSIAN, per, Symposium on Thermalized Neutron and Reactor Spectrum (Hochenergetische Agentstvo po Atomnoy Energii), 17-21 Jul 1967. JPRS 43682

Sci-Nucl Sci and Tech  
Jan 68

348,359

Neutron Spectrum in a Two-Region Graphite-Water  
System, by Kh. Sh. Abdullayev, V. I. Brygalov,  
14 pp.

RUSSIAN, per. Simpodium po tematizatsii Ney-  
tronov i Reaktornyye Spektrany (Mezhdunarodnyy  
Agentsvop po Atomnoy Energii), 17-21 Jul 1967.  
JPRS 43612

Sol-Nucl Sci and Tech  
Jan 68

348,358

A Theory of Density Damping of Neutrons from a Pulse Source in a Confined Moderator, by M. V. Kazarnovskiy, L. V. Mayorov, 15 pp.  
RUSSIAN, per, Symposium po teorii i eksperimentu Neytronov i Reaktornym Spaktram (Mashinostroeniye Agentstvo po Atomnoy Energii), 17-21 Jul 1967.  
JPRS 43682

Sci-Nucl Sci and Tech  
Jan 68

348.357

A Study of Inelastic Scattering of Neutrons in  
Graphite for Various Temperatures, by I. P.

Yuremyov, V. I. Mostovoy.

RUSSIAN, per. Symposium on Thermalized Neutrons  
in Reactor Spectrum (Mashinostroeniye Agentstvo  
po Atomnoy Energii), 17-18 Jul 1967.,

JPRS 43682

Sci-Nucl Sci and Tech  
Jan 68

511.9

348.356



Anisotropy of Neutron Spectrum in Water Near an  
Absorbent, by S. N. Izhmeyer, G. F. Litman, 18 pp.  
RUSSIAN, per, Symposium po temam iz oblasti  
teorii i realizatsii Spektrov (Mirovaya  
Agantstvo po Atomnoy Energii), 17-21 Jul 1967.  
JPRS 43682

Sci-Nucl Sci and Tech  
Jan 68

347,055

Methods of Solving Problems in Neutron Thermalization Theory, by L. V. Mayerov, G. Ya. Trukhanov, 21 pp.

RUSSIAN, per, Simpozium po teorii i praktike  
teorii i praktike Spektrov (Neposrednoye  
Agentsvo po Atomnoy Energii). 17-21 Jul 1967.  
JPRS 43682

Sci-Nucl Sci and Tech  
Jan 68

347.054

Average Neutron Density in Nonhomogeneous Media,  
by A. V. Stepanov, 42 pp.  
RUSSIAN, per. Symposium po teorii i praktiki  
tranzitov i reaktivnykh spetsial'nykh (vysokomirodnykh)  
Agentsvo po Atomnoy Energii, 17-21 Jul 1967.  
JPRS 43682

Sci-Nucl Sci and Tech  
Jan 68

347.053

Calculating the Thermodynamic Functions of  
Gaseous Uranium, Plutonium and Their Ions up to  
20,000°K, by L.V. Gurvich, V.S. Yugin. 11 pp  
RUSSIAN, rpt, Symposium Po Termodinamike s Osnovym  
Uporom Na Yadernyye Materialy i Perenos Atomov v  
Tverdyye Tela, Vienna 22-27 Jul 1965, 12 pp.  
9700755

FTD-TT-65-1480

Sci/Chemistry  
Jun 66

303,777

The Central Storage Area for Radioactive  
Wastes in the Czechoslovakian SSR, by I.  
Golub, I. Kortus, 12 pp.

RUSSIAN, rpt, Symposium po Udaleniyu Radioak-  
tivnykh Otkhodov v Zemlyu (Mezhdunarodnoye  
Agentstvo po Atomnoy Energii, Yevropeyskoye  
Agentstvo po Yadernoy Energii), 29 May-2 June  
1967.

JPRS 42565

Sci-Nuclear Sci & Tech  
Nov 67

344,050

Some Results of Operation of Pilot Scale  
Installation for Disposal of Liquid Radioactive  
Wastes in Deep Formations of Earth's Crust,  
by S. I. Zakharov, et al, 15 pp.

RUSSIAN, rpt, Sbornik po Voprosam Radioak-  
tivnykh Otkhodov v Zemlyu (Mezhdunarodnoye  
Agentsvo po Atomnoy Energii, Yevropeyskoye  
Agentsvo po Yadernoy Energii), 29 May-2 June  
1967.

JPRS 42565

Sci-Nuclear Sci & Tech  
Nov 67

344,049

Scientific Premises for the Usage of Deep  
Formations for Storage of Liquid Radioactive  
Wastes, by V. I. Spitsyn, et al, 15 pp.

RUSSIAN, rpt, Simpozium po Udalekayu Radioak-  
tivnykh Otchodov v Zemlyu (Beshchennarodnaya  
Agentsvo po Atomnoy Energii, Tsvetnykhoye  
Agentsvo po Yadernoy Energii), 29 May-2 June  
1967.

JPRS 42565

Sci-Nuclear Sci & Tech

Nov 67

344,048

Possibility and Expediency of Melting Cal-  
cinated Radioactive Wastes in the Ground,  
by V. G. Verengunov, K. P. Zakharova, et al.  
RUSSIAN, rpt, Symposium po Udaleniyu Radioak-  
tivnykh Otkhodov v Zemlya (Mezhdunarodnyye  
Agentsvo po Atomnoy Energii, Yevropeyskoye  
Agentsvo po Yadernoy Energii), 29 May-2 June  
1967.

JPRS 42565

Sci-Nuclear Sci & Tech  
Nov 67

344,047



Sci-Nuclear Sci & Technology  
Rev 67

343,981

**Investigation of Sorption and Migration of  
Radioactive Iodine in Solids and Aqueous  
Various Compositions, by V. I. Spitsin, V. D.  
Balashov, 11 pp.**

**RUSSIAN, rpt, ~~Report on the Migration of Radioactive  
Iodine in Solids and Aqueous Various Compositions~~  
~~Submitted to Academy of Sciences, USSR Academy of  
Sciences, 29 May-2 June 1967.~~**

**JPRS 42565**

**Sci-Nuclear Sci & Technology  
Nov 67**

**343,979**

**Study of Conditions for Control of Radioactive  
Content in Soils, by Yu. M. Boudakov, et al.  
MOSCOW, U.S.S.R., 1967. 114 pages. 11 cm.  
Agreement to Atomic Energy, 29 May-2 June  
1967.**

Sci-Nuclear Sci & Technology  
Nov 67

**343,980**

Experimental Burial of Radioactive Waste of  
Low Activity Level in Clay Shale at Moscow  
Station, by I. A. Sobolev, L. M. Khomchik, et  
al, 11 pp.

~~RUSSIAN, rpt, Signpost to Udaleniya Radioak-~~  
~~tivnykh Otkhodov v Krasnyy Khimicheskyye~~  
~~Aggregat na Akkumulyatsionnyy Khimicheskyye~~  
~~Aggregat na Akkumulyatsionnyy Khimicheskyye~~  
1967.

JPRS 42565

Sci-Nuclear Sci & Technology  
Nov 67

343,978

Certain Problems of Control of Territorial Data-  
Transmission and Processing Networks, by

I. A. Bashmakov. 8 pp.

Russian, rpt, Simpodium po Vychislitel'nykh  
Sistemam. Novosibirsk, 1966, 1967, pp 63-71.

AIK/FTD/IT-23-879-68

sci/ navigation, comman.  
nov 69

397,015

The Synthesis of Schemes in Multistage Memory  
Automata, by S.I. Baranov. 6 pp.  
RUSSIAN, Rpt, Simpozium Po Vychislitel'nykh  
Sistemam. 1967, pp 191-196  
AIR/FTD/MT-24-403-68

Electronics & Elect. Eng.

377,913

apr 69

One Method of Realizing Automata in a  
Computer Medium, by B. A. Sidristyy,  
A. I. Mishin.  
RUSSIAN, rpt, Simpozium po Vychislitel-  
nym Sistemam. Novosibirsk, 1966, Trudy,  
1967, pp 209-214.  
AIR/FTD/HT-23-805-68

Sci-Elec  
Apr 69

379,811

RUBEN/

Cable 0657/72  
100 May 70H  
CV

Examination of the French and Russian Institute  
of a 1.5 Rev, by A. A. Voinov, G. I. P. Gachalin,  
et al.

Recev. Washington 1571 on 1.5 Rev, 1969.

Special - Don't publish - translate table of contents  
and figure captions only.



Synoptico-Climatological and Heligeophysical Long-Term Weather Forecasting, by T.V. Pokrovskaya.  
329 pp

RUSSIAN, bk, Sinoptiko-Klimatologicheskiye i  
Geliogeofizicheskiye Dolgosrochnyye Prognozy Pogody,  
Gidrometeorologicheskoye, 1969, pp 1-254  
AIR/FTD-MT- 24-139-70

Utilization of Diamond Finishing Disks by  
Crimean Lapidarion, by Ya. Yu. Arbatskii.  
RUSSIAN, per, Sinteticheskie Almazы, No 6,  
1969, pp 61-62.  
NTC-71-16108-11G

Jan 72

SYNTHETIC DIAMINES AT THE GOVERNMENT CHEMICAL  
PLANT

$$C_1 = 0.0001 \text{ m}^2 \text{ s}^{-1} \quad C_2 = 0.0001 \text{ m}^2 \text{ s}^{-1} \quad C_3 = 0.0001 \text{ m}^2 \text{ s}^{-1}$$

SINTECHESKIYE ALMAZY (SUTOPIN) ISSUES 197.  
 KIEV PP 11-13

1510-11-23-1172-72

L. V. Komolayeva

*Use of Soak During the machining of magnetic alloys.*  
6 pp.

RUSSIAN, Sinteticheskiye Alloys, Vol 2, No 5, 1970,  
pp 6-9

AIR/FTD-HT-23-758-72

nov 72

J  
Frictional Force in Cutting of Metals With Diamond  
Tools, by B. I. Kostetskiy, B. V. Protopopov.

6 pp.

RUSSIAN, per, Sinteticheskiye Almazы. Nauchno-  
Proizvodstvennyy, Sbornik, No 3, 1969, pp 4-7.

AIR/FTD-MT-24-77-71

Oct 71

I. Kh. Chapovatskiy

P. V. Nelipovich

The nature of wear of diamond bars in honing. 5 pp.  
RUSSIAN, per, Sinteticheskiye almazny nauchno-proiz-  
vodstvennyy sbornik, Vol 1, No 7, 1970, pp 67-69  
ATR/FTD-WP-23-123E-71

June 72

*Yu. N. Shokhter*

*New Composition of a coolant-lubricant for grinding of glass. 5 pp.*

*RUSSIAN, Sinteticheskiye Almaniy. Nauchno-Proizvodstvennyy Sbornik, Vol 5, No 7, 1970, pp 4-6*

*AIR/FTD-HT-23-783-72*

*deo 72*

SYNTHETIC ADHESIVES, 2ND ED.

KORDASHOV, A.      LANGUAGE-RU      COUNTRY-UR

SINTETICHESKIYE KLEI

PUB. ~~OKHIMIYA~~, MOSCOW, 1968, 589 PP.

FSTC-HT-23-1168-73



RUSSIAN Comp. Specimen  
14pp. CNO: 01289/73 W  
9 Jan. 1973 BF

Synthetic mullite and materials based on it, by  
V.N. Gromov.

Kiev, Sinteticheskiy mullit i materialy na yego  
osnove, pp 3-9, 18-20, 46-53 (no forward).

All Rec  
Special type B  
Is not publish  
Original plus 4 copies, including reproductions

SYNTHETIC MULLITE AND MATERIALS BASED ON IT

GROSHOVA, V. I. LANGUAGE=RU COUNTRY=UR

SINTETICHESKIY MULLIT I MATERIALY NA EGO OSNO  
VE

'TEKHNIKA', KIEV 1971 PP10-18 21-48 53- 56

FSTC=HT=23=2472=72

Lubricants For Capron Fibers, by L. G. Kharitonova,  
S. A. Sadikova, et al. 5 pp.  
RUSSIAN, bk, Sinteticheskiye Volokna, 1969,  
pp 188-189.  
AIR/FTD/HC-23-376-71

Dec 71

Synthesis of Biologically Active Substances in an  
Ultrasonic-Wave Field, by I. Ye. El'piner.

RUSSIAN, bk, Sintez Biologicheskoy Aktivnykh  
Veshchestv v Pole Ultrazvukovykh Voln, 1968,  
pp 49-51.

NTSA TT F-12,190

Sci-B&M

July 69

388,559

DC

22967

14 May 69 EF

Synthesis of Discrete(Digital) Automatic Machines  
and Control units by V.G.Lazerev ,

Russian, book, Sintez-Diskretnykh avtomatov i uprav.  
ustroystv, Moscow, 1968, ppl88-191

Special Type "B" Translators draft plus one

per- do not mutilate,

DNA Synthesis and Kinetics of Cell  
Populations in Ontogeny, by E.A. A. Zavarzin.  
RUSSIAN, bk, Sintez DNK i Kinetika Kletochnykh  
Populyatsii v Ontogeneze, 1967.  
\*Plenum Press

Sci  
Jul 67

Obtaining Polyamide Urethanes From Hydroxy-ethyl and Hydroxypropyl Derivatives of Dibasic Acid Amides and 2,4-Toluylene Diisocyanate [Raport III], by G. A. Yangol', K. A. Komev. 7 pp.

NEDELKIN, M., rpt, NI UREKSR. Sintez i Fiziko-Khimiya Polimerov, 1966, pp 55-60.

AIR/FTD/MT-23-378-69

sci/chemistry  
dec 69

397,385

**Linear Polyurethanes With Imidazolidine Cycles  
in Chain, by L. V. Stopenchuk, A. G. Yakovenko,  
et al. 12 pp.**

**RUSSIAN, rpt, AN UZBEK, Sinton 1 Fiziko-  
Khimya Polimerov; Polimerov, 1968, pp 14-23.  
AIR/PT/NT-24-151-69**

sci/physics  
apr 70

405,883



Linear Polyureas With Isocyanurate and  
S-Triazine Rings, by L. V. Stepanenko,  
V. M. Stopenko, et al. 8 pp.  
RUSSIAN, rpt, AN UKSSR. Sintez i Fiziko-Khimiya  
Polimerov; Poliuretany, 1968, pp 32-38.  
ATV/PID/IN-23-234-69

sri/chemistry  
mar 70

402,815

The Change of Internal Energy During High  
Elastic Deformation of Polymers, by  
Yu. B. Lipatov, O. V. Gerasim, et al. 10 pp.  
RUSSIAN, rpt, AN URSER. Sinter i Plasti-  
Kivaya Polimerov; Polimerny, 1968, pp 185-192  
ADR/FTD/MT-24-151-69

sci/materials

405,884

Synthesis of Polyurethanes. Part II. Synthesis  
and Study of Elastomers Containing Urethane and  
Semicarbazide Groups, by A. P. Grekov, et al.  
RUSSIAN, per, Sintez i Fiziko-Khimiya Polimerov,  
No 6, 1970, pp 39-42.  
NTC 71-13684-11J

Feb 72

The Application of Alkylalkoxy Silanes  
of the Film Formation of Polyurethane  
Compositions, by N. P. Smetankina.  
RUSSIAN, per, Sintez i Fiziko-Khimiya  
Polymerov, No 6, 1970, pp 175-180.  
NTC 72-10423-11I

Apr 72

REQ. IN OFFICE 7-0-27 TCH2  
FROM: DIRECTOR, DEPT. OF APTOXIDANT  
HARVEST  
HON. SEN. EISENBERG, SEN. POLIN, MATER.  
1969, nr 3, pp 480-481

*Personnel and as*  
*HS72-23-1417*

*negative*

10 MAR 1970

L. A. Skripko

Advances in Chemistry in the Area of p-Phenylenediamine Derivatives.

SINTEZ I ISSLEDOVANIE EFEKTIVNOSTI KHIMIKATOV  
DLYA POLIMERNYKH MATERIALOV. VSESOUZNAYA NAUCHNO-  
TEKHNIЧЕСКАЯ КОНФЕРЕНЦИЯ. MATERIALY, 1969,  
pp 3-32  
NTC-72-14640-111

Feb 1973

Synthesis and Study of Monomer and Polymer Compounds Containing Phosphorus, Silicon, Titanium, and Fluorine: Collection.

RUSSIAN, rpt, Sintez i Issledovanie Monomernykh i Polimernykh Soedinenii, Soderzhashchilch Fostov, Kremnii, Titan, Ftor: Sbornik Statei, Academy of Sciences of the URAL SSSR.  
PLENUM PRESS

Sci/Materials  
Aug 67

336,635

Synthesis Based on Acetylene and the Products of  
Coal Chemistry, by Ye. A. Bukatov.

RUSSIAN, rpt, Sintezy na Osnove Atsetilena i  
Produktov Uglekhimiy.

\*CPSTI TT 70-53096

Sci/Chem

Sept 70



Copolymers of Styrene with  $\alpha$ -Divinyl-Benzene  
and their Ionites, by E. B. Trostyanskaya.  
RUSSIAN, mono, Sintez i Svcistva Ionobmenmykh  
Materialov, 1968, pp 17-22.  
NTC 71-16834-07C

Mar 72

Modification of the Properties of Anionites  
Obtained by the Polycondensation Reaction, by  
L. L. Grachev  
RUSSIAN, mono, Sintez i Svoistva Ionoobmennyykh  
Materialov, 1968, pp 32-34  
NTC 71-16418-07D

mar 72

Synthesis and Study of the Properties of Macro-  
porous Anionites, by M. P. Kovleva  
RUSSIAN, mono, Sintez i Svoistva Ionoobmennyykh  
Materialov, 1968, pp 38-44  
NTC 71-16417-07D

mar 72

Ion-Exchange Sorbents for the Absorption of  
Organic Substances from Water, by V. A. Vakulenko  
RUSSIAN, mono, Sintez i Svoistva Ionoobmennyykh  
Materialov, 1968, pp 77-79  
NTC 71-16419-07D

mar 72

Thermal Stability of Anion Exchangers, by  
N. I. Petrova  
RUSSIAN, mono, Sintez i Svoistva Ionoobmennyykh  
Materialov, 1968, pp 120-125  
NTC 71-16420-07D

mar 72

Mechanism of Ionizing-radiation Action on  
Sulfo-cations, by P. Ye. Tulupov,  
N. V. Ryabkov. 12 pp.  
RUSSIAN, bk, Sintez i Svoystva Ionosmennykh  
Materialov, 1968, pp 125-133.  
ACSI-J-7362  
FSTC-HT-23-141-70

Sci-Phys  
Nov 69

395,724

Distribution of Pores According to Size in Ion-  
Exchange Resins, by G. V. Samsonov  
RUSSIAN, mono, Sintez i Svoistva Ionobennykh  
Materialov, 1968, pp 169-172  
NTC 71-16422-07D

mar 72

Selective Properties of Phosphoric Acid Cation-  
Exchange Resins, by G. S. Mananok  
RUSSIAN, mono, Sintez i Svoistva Ionoobennykh  
Materialov, 1968, pp 221-224  
NTC 71-16421-07D

mar 72



REQ TR CHECK

20-4-16

TD73

LUBRICANTS FOR KAPRON YARN

KHARITONOVA L G

UR: SIN. VOLOKNA, 1969, pp 188-189

*In process as*

*HC-23-71-376 may  
27 April 71*

Cybernetics and Automation, by D. A. Oshanin,  
259 pp.

RUSSIAN, rpt, Sistema "Chelovek i Avtomat",  
196), pp. 5-15, 16-19, 20-27, 28-36, 37-46,  
47-52, 53-61, 62-69, 70-85, 86-93, 94-111,  
112-113, 119-127, 128-146, 147-154, 155-159,  
160-164, 165-171, 172-176, 177-181, 182-184,  
185-196, 197-214, 215-228, 229-234, 235-240,  
241-244, 245-252

JPRS 37072

USSR

Sci-Math/DP

Sept 66

310,117

Multiple Acceleration System for an Electro-  
dynamic Separator of High-Energy Particles, by  
N.G. Borisov, V.A. Vagin, et al. 13 pp.  
RUSSIAN, rpt, Sistema Kratnogo Uskoreniya Elek-  
trodinamicheskogo Separatora Chastits Vysokikh  
Energii, 1965, 9232791  
AEC SLAC-tr-36

Sci/Nuclear Sci  
Jun 66

302,476

Rock Lizards of the Caucasus, by I. S. Darevskiy.  
RUSSIAN, bk, Sistematika, Ekologiya i Filogeniya  
Polimorfnoy Gruppy Kavkazskikh Yashcherits  
Podroda Archaeolacerta, 1967, 214 pp.  
\*CFSTI TT 70-53086

Sci/B&M  
Sept 70

AMERICAN

Copy. 1/2  
7 jppCNO: 02880/72 W  
12 Jun 72 SF

System control of production, by A. B. Chelyustkin.

Moscow, Sistemye upravleniya proizvodstvom, 1971,  
table of contents, introduction, & in lieu of a  
conclusion, pp 5-7, 132-133, & 135.

Ad Hoc

Spec type B

Do not publ.

Original plus one copy.

A. B.: 19 June

Summary Document, 24pp.  
RUSSIAN, 1st. [illegible]  
1970, pp 11A-13.  
JPRS 53376

July 71

Automatic Monitoring Systems for Velocity and  
Flowrate Fields, by G. P. Katya, 445 pp.  
RUSSIAN, per, Sistemy Avtomaticheskogo  
Kontrolya Polya Skorostey i Raschodov, 1965,  
pp 1-464. P100240068-7  
P100240068-7

Sci/Methods & Equip  
Oct 68

363,386

Automatic Control Systems with Variable Structure,  
by S. V. Yemel'yanov. 326 pp.

RUSSIAN, bk, Sistemy Avtomaticheskogo Upravleniya  
s Peremennoy Strukturoy, 1967, pp 1-335.

AIR/PTD/NT-24-381-69

Sci-Elec  
Jul 70





Chapter II. Need to Automate Library Flying  
Process, by I. A. Mikhailov, B. N. Goryunov,  
12 pp.  
RUSSIAN, Inc. Stationery, 1571,  
Soviet Union, Moscow, 1571,  
JAN 1971

Oct. 71

Hydraulic Automation Systems by M. D. Lemberg,  
112 pp.  
RUSSIAN, rpt, Sistemy gidravtomatiki, 1965.  
Dept of Navy 4877/Bu of Ships Tr No 984

UNCLASSIFIED DISTRIBUTION OF THIS DOCUMENT IS  
UNLIMITED.  
Sept 66

309,729